

hthgu133bcdf

April 29, 2025

`i2xy`

Convert (x,y)-coordinates to single-number indices and back.

Description

Convert (x,y)-coordinates on the chip (and in the CEL file) to the single-number indices used in AffyBatch and CDF environment, and back.

Usage

```
i2xy(i)
xy2i(x,y)
```

Arguments

<code>x</code>	numeric. x-coordinate (from 1 to 744)
<code>y</code>	numeric. y-coordinate (from 1 to 744)
<code>i</code>	numeric. single-number index (from 1 to 553536)

Details

Type `i2xy` and `xy2i` at the R prompt to view the function definitions.

See Also

[hthgu133bcdf](#)

Examples

```
xy2i(5,5)
i      = 1:(744*744)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

hthgu133bcd	<i>hthgu133bcd</i>
-------------	--------------------

Description

environment describing the CDF file

hthgu133bdim	<i>hthgu133bdim</i>
--------------	---------------------

Description

environment describing the CDF dimensions

Index

* datasets

hthgu133bcdf, 2

hthgu133bdim, 2

i2xy, 1

hthgu133bcdf, 1, 2

hthgu133bdim, 2

i2xy, 1

xy2i (i2xy), 1